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### 1 [Towards locating execution omission errors](#)

[Xiangyu Zhang](#), [Sriraman Tallam](#), [Neelam Gupta](#), [Rajiv Gupta](#)

 June 2007 **PLDI '07: Proceedings of the 2007 ACM SIGPLAN conference implementation**
**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (282.87 KB)

 Additional Information: [full citation](#), [abstra](#)
**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 55, Downloa

Execution omission errors are known to be difficult to locate using dyna failure at runtime because of the omission of execution of some statem the program had no errors. Since ...

**Keywords:** debugging, execution omission, implicit dependence, poten relevant slicing

Also published in:

 June 2007 **SIGPLAN Notices** Volume 42 Issue 6

### 2 [Compositional verification of concurrent systems using Petri-net-bas](#)

[Eric Y. T. Juan](#), [Jeffrey J. P. Tsai](#), [Tadao Murata](#)

 September 1998 **Transactions on Programming Languages and Syster**
**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (578.81 KB)

 Additional Information: [full citation](#), [abstra](#)
**Bibliometrics:** Downloads (6 Weeks): 27, Downloads (12 Months): 101, Downl

The state-explosion problem of formal verification has obstructed its ap systems. In this article, we introduce a set of new condensation theorie equivalence, and firing-dependence ...

**Keywords:** Petri nets, boundedness, compositional verification, deadlo reachability graphs, reachable markings

### 3 [Large-scale testing of the Internet's Border Gateway Protocol \(BGP\)](#)

[Glenn Carl](#), [George Kesidis](#)


 July 2008 **Transactions on Modeling and Computer Simulation (TO**
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**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 138, Downloads


The Internet is a critical communication infrastructure servicing billions of users. Studies of the Internet's operations show that data loss and increased latency in its interdomain routing protocol, ...

**Keywords:** BGP, interdomain routing, model reduction, network topology

#### 4 [On test suite composition and cost-effective regression testing](#)

 [Gregg Rothermel, Sebastian Elbaum, Alexey G. Malishevsky, Praveen Kalla](#)  
July 2004 **Transactions on Software Engineering and Methodology**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf \(1.02 MB\)](#)


Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 36, Downloads (12 Months): 266, Downloads

Regression testing is an expensive testing process used to revalidate software. Several methodologies for improving regression testing processes have been explored. These methodologies have been shown to vary in effectiveness. ...

**Keywords:** Empirical studies, regression testing, test suite composition

#### 5 [Semantics-preserving multitask implementation of synchronous programs](#)

 [Paul Caspi, Norman Scaife, Christos Sofronis, Stavros Tripakis](#)  
February 2008 **Transactions on Embedded Computing Systems (TECS)**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf \(799.29 KB\)](#)


Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 91, Downloads

We study the implementation of a synchronous program as a set of multiprocessors, and scheduled by a real-time operating system using some priority scheduling policy or earliest-deadline first. Multitask ...

**Keywords:** Embedded software, model-based design, optimality, preemption, communication, semantical preservation, synchronous programming

#### 6 [A model for abstract process specification, verification and composition](#)

 [Ziyang Duan, Arthur Bernstein, Philip Lewis, Shiyong Lu](#)  
November 2004 **ICSOC '04: Proceedings of the 2nd international conference on Software Composition**

**Publisher:** ACM

Full text available:  [Pdf \(231.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 58, Downloads

An abstract business process contains a description of the protocol that a participant follows in revealing the internal computation of the process. This description provides a way to compose the process with other Web services. ...

**Keywords:** BPEL abstract process, web services

### 7 [Test-Suite Augmentation for Evolving Software](#)

[R. Santelices](#), [P. K. Chittimalli](#), [T. Apiwatanapong](#), [A. Orso](#), [M. J. Harrold](#)  
September 2008 **ASE '08**: Proceedings of the 2008 23rd IEEE/ACM International Conference on Software Engineering

**Publisher:** IEEE Computer Society

Full text available:  [Pdf](#) (189.28 KB)


Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 15, Downloads (All Time): 15

One activity performed by developers during regression testing is test-suite augmentation, which consists of assessing the adequacy of a test suite after a program is modified and identifying new test cases that are not adequately exercised ...

**Keywords:** fault-detection capabilities, test-suite augmentation, regression testing, dependence analysis, partial symbolic execution

### 8 [Test input generation for java containers using state matching](#)

 [Willem Visser](#), [Corina S. Păsăreanu](#), [Radek Polánek](#)  
July 2006 **ISSTA '06**: Proceedings of the 2006 international symposium on integrated static analysis

**Publisher:** ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (215.88 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 97, Downloads (All Time): 114

The popularity of object-oriented programming has led to the wide use of Java containers. The reliability of these containers that they are tested adequately. We describe a technique for the input generation of Java ...

### 9 [EXPedite: a system for encoded XML processing](#)

 [Yi Chen](#), [George A. Mihaila](#), [Susan B. Davidson](#), [Sriram Padmanabhan](#)  
November 2004 **CIKM '04**: Proceedings of the thirteenth ACM international conference on information and knowledge management

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (217.31 KB)


Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 22, Downloads (All Time): 24

As XML becomes an increasingly popular format for information exchange, the need to process XML data on a constrained device (for example, a cell phone or a PDA) is increasing. We present the EXPedite system: ...

**Keywords:** XML, XPath, binary encoding, query processing

### 10 [Putting static analysis to work for verification: A case study](#)

 [Tal Lev-Ami](#), [Thomas Reps](#), [Mooly Sagiv](#), [Reinhard Wilhelm](#)  
August 2000 **ISSTA '00**: Proceedings of the 2000 ACM SIGSOFT international symposium on integrated static analysis

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (512.51 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 71, Download


A method for finding bugs in code is presented. For given small number translated into a relational formula whose models represent all execution cells and k loop iterations. This ...

**Keywords:** alloy language, constraint solvers, detecting bugs, model checking analysis, testing

Also published in:

September 2000 **SIGSOFT Software Engineering Notes** Volume 25 Issue 5

# 11 Using formal specifications to support testing

 Robert M. Hierons, Kirill Bogdanov, Jonathan P. Bowen, Rance Cleaveland, Gheorghe, Mark Harman, Kalpesh Kapoor, Paul Krause, Gerald Lüttgen, An Martin R. Woodward, Hussein Zedan

February 2009 **Computing Surveys (CSUR)** , Volume 41 Issue 2

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (729.47 KB)


Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 154, Downloads (12 Months): 1938, Download

Formal methods and testing are two important approaches that assist in software. While traditionally these approaches have been seen as rivals developed in which they are seen as complementary. ...

**Keywords:** Software testing, formal methods

# 12 PET: a partial evaluation-based test case generation tool for Java by

 Elvira Albert, Miguel Gómez-Zamalloa, Germán Puebla

January 2010 **PEPM '10: Proceedings of the 2010 ACM SIGPLAN workshop on manipulation**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (307.57 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 20, Download

PET is a prototype Partial Evaluation-based Test case generation tool for performs white-box test generation by means of two consecutive Partial decompiles the Java bytecode program ...

**Keywords:** constraint logic programming, partial evaluation, symbolic

# 13 Secure key agreement for group communications

Wen-Her Yang, Shih-Pyng Shieh

November 2001 **International Journal of Network Management** , Volume

**Publisher:** John Wiley & Sons, Inc.

Full text available:  Pdf (174.68 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 3, Download

A secure key agreement protocol for group communications is proposed authenticity of group members and the privacy of group messages, and forward and backward privacy. In a group session, ...

#### 14 [Invariant-based automatic testing of AJAX user interfaces](#)

[Ali Mesbah](#), [Arie van Deursen](#)

May 2009 **ICSE '09**: Proceedings of the 2009 IEEE 31st International Co


**Publisher**: IEEE Computer Society

Full text available:  [Pdf](#) (179.68 KB) Additional Information: [full citation](#), [abstra](#)

**Bibliometrics**: Downloads (6 Weeks): 31, Downloads (12 Months): 242, Downl

AJAX-based Web 2.0 applications rely on stateful asynchronous client/s runtime manipulation of the DOM tree. This not only makes them funda applications, but also more error-prone ...

#### 15 [Empirical study of optimization techniques for massive slicing](#)

 [David Binkley](#), [Mark Harman](#), [Jens Krinke](#)

November 2007 **Transactions on Programming Languages and System**

**Publisher**: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (1.44 MB) Additional Information: [full citation](#), [abstra](#)

**Bibliometrics**: Downloads (6 Weeks): 12, Downloads (12 Months): 70, Downlo

This article presents results from a study of techniques that improve the interprocedural slicing of the System Dependence Graph (SDG). This is are required for many or all ...

**Keywords**: Slicing, empirical study, internal representation, performan

#### 16 [Using LTL rewriting to improve the performance of model-checker ba](#)

 [Gordon Fraser](#), [Franz Wotawa](#)

July 2007 **A-MOST '07**: Proceedings of the 3rd international workshop o

**Publisher**: ACM

Full text available:  [Pdf](#) (255.00 KB) Additional Information: [full citation](#), [abstra](#)

**Bibliometrics**: Downloads (6 Weeks): 3, Downloads (12 Months): 65, Downloa

Model-checkers have recently been suggested for automated software t presented methods that create efficient test-suites using model-checker are major advantages of such approaches. ...

**Keywords**: LTL rewriting, automated software testing, test-case gener

#### 17 [Software Testing Research: Achievements, Challenges, Dreams](#)

[Antonia Bertolino](#)

May 2007 **FOSE '07**: 2007 Future of Software Engineering


**Publisher**: IEEE Computer Society

Full text available:  [Pdf](#) (716.35 KB) Additional Information: [full citation](#), [abstra](#)

**Bibliometrics**: Downloads (6 Weeks): 253, Downloads (12 Months): 1789, Dov

Software engineering comprehends several disciplines devoted to prevent adequate behaviour. Testing, the subject of this paper, is a wide but it is still largely ad hoc, expensive, ...

#### 18 [Search-based testing of service level agreements](#)

 [Massimiliano Di Penta, Gerardo Canfora, Gianpiero Esposito, Valentina Maz](#)  
July 2007 **GECCO '07**: Proceedings of the 9th annual conference on Gen

**Publisher:** ACM

Full text available:  [Pdf](#) (227.12 KB)


Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 124, Downloads

The diffusion of service oriented architectures introduces the need for a new side, testing must be able to identify failures in the functionality provided to identify cases in which ...

**Keywords:** quality of service, search-based testing, service level agreement

#### 19 [An empirical study of static program slice size](#)

 [David Binkley, Nicolas Gold, Mark Harman](#)

April 2007 **Transactions on Software Engineering and Methodology**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (247.98 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 141, Downloads

This article presents results from a study of all slices from 43 programs, slice size. The study investigates the effect of five aspects that affect slice size study two algorithmic ...

**Keywords:** Program slicing, slice size

#### 20 [From program verification to program synthesis](#)

 [Saurabh Srivastava, Sumit Gulwani, Jeffrey S. Foster](#)

January 2010 **POPL '10**: Proceedings of the 37th annual ACM SIGPLAN-SIG programming languages

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (547.18 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 47, Downloads (12 Months): 47, Downloads

This paper describes a novel technique for the synthesis of imperative programs has the potential to make programming and the design of systems easier at a higher-level than executable ...




**Keywords:** proof-theoretic program synthesis, verification

Also published in:

January 2010 **SIGPLAN Notices** Volume 45 Issue 1

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